

S. Kaushal

Re-run

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/155,327E

DATE: 06/25/2002
TIME: 10:23:54

#30

Input Set : N:\paola\US09155327E.RAW
Output Set: N:\CRF3\06252002\I155327E.raw

1 <110> APPLICANT: AMRAD Operations Pty Ltd
2 <120> TITLE OF INVENTION: A NOVEL MAMMALIAN GENE, bcl-2, BELONGS TO THE bcl-2
3 FAMILY OF APOPTOSIS-CONTROLLING GENES
4 <130> FILE REFERENCE: 2096584
C--> 5 <140> CURRENT APPLICATION NUMBER: US/09/155,327E
6 <141> CURRENT FILING DATE: 1999-03-29
7 <150> PRIOR APPLICATION NUMBER: PN8965
8 <151> PRIOR FILING DATE: 1996-03-27
9 <160> NUMBER OF SEQ ID NOS: 9
10 <170> SOFTWARE: PatentIn Ver. 2.1
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13 <211> LENGTH: 33
14 <212> TYPE: DNA
15 <213> ORGANISM: Mouse
16 <220> FEATURE:
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18 <222> LOCATION: 16
19 <223> OTHER INFORMATION: n is inosine
20 <220> FEATURE:
21 <221> NAME/KEY: modified_base
22 <222> LOCATION: 19
23 <223> OTHER INFORMATION: n is inosine
24 <220> FEATURE:
25 <221> NAME/KEY: modified_base
26 <222> LOCATION: 22
27 <223> OTHER INFORMATION: n is inosine
28 <220> FEATURE:
29 <221> NAME/KEY: modified_base
30 <222> LOCATION: 25
31 <223> OTHER INFORMATION: n is inosine
32 <400> SEQUENCE: 1
W--> 33 gctctagaac tggggnhgnr tngtngcctt ytt 33
35 <210> SEQ ID NO: 2
36 <211> LENGTH: 9
37 <212> TYPE: PRT
38 <213> ORGANISM: Mouse
39 <220> FEATURE:
40 <221> NAME/KEY: Unsure
41 <222> LOCATION: 5
42 <223> OTHER INFORMATION: Xaa is Ile or Val
43 <400> SEQUENCE: 2
W--> 44 Asn Trp Gly Arg Xaa Val Ala Phe Phe
45 1 5

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Input Set : N:\paola\US09155327E.RAW
 Output Set: N:\CRF3\06252002\I155327E.raw

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47 <210> SEQ ID NO: 3
48 <211> LENGTH: 31
49 <212> TYPE: DNA
50 <213> ORGANISM: Mouse
51 <220> FEATURE:
52 <221> NAME/KEY: modified_base
53 <222> LOCATION: 14
54 <223> OTHER INFORMATION: n is inosine
55 <220> FEATURE:
56 <221> NAME/KEY: modified_base
57 <222> LOCATION: 17
58 <223> OTHER INFORMATION: n is inosine
59 <220> FEATURE:
60 <221> NAME/KEY: modified_base
61 <222> LOCATION: 20
62 <223> OTHER INFORMATION: n is inosine
63 <400> SEQUENCE: 3
W--> 64      ggaattccca gccnccntkn tcttggatcc a
66 <210> SEQ ID NO: 4
67 <211> LENGTH: 8
68 <212> TYPE: PRT
69 <213> ORGANISM: Mouse
70 <220> FEATURE:
71 <221> NAME/KEY: Unsure
72 <222> LOCATION: 4
73 <223> OTHER INFORMATION: Xaa is Asp or Glu
74 <220> FEATURE:
75 <221> NAME/KEY: Unsure
76 <222> LOCATION: 5
77 <223> OTHER INFORMATION: Xaa is Asn or Gln
78 <400> SEQUENCE: 4
W--> 79      Trp Ile Gln Xaa Xaa Gly Gly Trp
80          1          5
82 <210> SEQ ID NO: 5
83 <211> LENGTH: 14
84 <212> TYPE: PRT
85 <213> ORGANISM: Mouse
86 <400> SEQUENCE: 5
87      Met Ala Thr Pro Ala Ser Thr Pro Asp Thr Arg Ala Leu Val
88          1          5          10
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 583
92 <212> TYPE: DNA
93 <213> ORGANISM: HUMAN
94 <220> FEATURE:
95 <221> NAME/KEY: CDS
96 <222> LOCATION: (1)..(579)
97 <400> SEQUENCE: 6
98      atg gcg acc cca gcc tcg gcc cca gac aca cgg gct ctg gtg gca gac 48

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Input Set : N:\paola\US09155327E.RAW
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99      Met Ala Thr Pro Ala Ser Ala Pro Asp Thr Arg Ala Leu Val Ala Asp
100      1              5              10              15
101      ttt gta ggt tat aag ctg agg cag aag ggt tat gtc tgt gga gct ggc 96
102      Phe Val Gly Tyr Lys Leu Arg Gln Lys Gly Tyr Val Cys Gly Ala Gly
103              20              25              30
104      ccc ggg gag ggc cca gca gct gac ccg ctg cac caa gcc atg cgg gca 144
105      Pro Gly Glu Gly Pro Ala Ala Asp Pro Leu His Gln Ala Met Arg Ala
106              35              40              45
107      gct gga gat gag ttc gag acc cgc ttc cgg cgc acc ttc tct gat ctg 192
108      Ala Gly Asp Glu Phe Glu Thr Arg Phe Arg Arg Thr Phe Ser Asp Leu
109              50              55              60
110      gcg gct cag ctg cat gtg acc cca ggc tca gcc cag caa cgc ttc acc 240
111      Ala Ala Gln Leu His Val Thr Pro Gly Ser Ala Gln Gln Arg Phe Thr
112      65              70              75              80
113      cag gtc tcc gac gaa ctt ttt caa ggg ggc ccc aac tgg ggc cgc ctt 288
114      Gln Val Ser Asp Glu Leu Phe Gln Gly Gly Pro Asn Trp Gly Arg Leu
115              85              90              95
116      gta gcc ttc ttt gtc ttt ggg gct gca ctg tgt gct gag agt gtc aac 336
117      Val Ala Phe Phe Val Phe Gly Ala Ala Leu Cys Ala Glu Ser Val Asn
118              100              105              110
119      aag gag atg gaa cca ctg gtg gga caa gtg cag gag tgg atg gtg gcc 384
120      Lys Glu Met Glu Pro Leu Val Gly Gln Val Gln Glu Trp Met Val Ala
121              115              120              125
122      tac ctg gag acg cgg ctg gct gac tgg atc cac agc agt ggg ggc tgg 432
123      Tyr Leu Glu Thr Arg Leu Ala Asp Trp Ile His Ser Ser Gly Gly Trp
124              130              135              140
125      gcg gag ttc aca gct cta tac ggg gac ggg gcc ctg gag gag gcg cgg 480
126      Ala Glu Phe Thr Ala Leu Tyr Gly Asp Gly Ala Leu Glu Glu Ala Arg
127      145              150              155              160
128      cgt ctg cgg gag ggg aac tgg gca tca gtg agg aca gtg ctg acg ggg 528
129      Arg Leu Arg Glu Gly Asn Trp Ala Ser Val Arg Thr Val Leu Thr Gly
130              165              170              175
131      gcc gtg gca ctg ggg gcc ctg gta act gta ggg gcc ttt ttt gct agc 576
132      Ala Val Ala Leu Gly Ala Leu Val Thr Val Gly Ala Phe Phe Ala Ser
133              180              185              190
134      aag tgaa 583
135      Lys
137 <210> SEQ ID NO: 7
138 <211> LENGTH: 193
139 <212> TYPE: PRT
140 <213> ORGANISM: HUMAN
141 <400> SEQUENCE: 7
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143      1              5              10              15
144      Phe Val Gly Tyr Lys Leu Arg Gln Lys Gly Tyr Val Cys Gly Ala Gly
145              20              25              30
146      Pro Gly Glu Gly Pro Ala Ala Asp Pro Leu His Gln Ala Met Arg Ala
147              35              40              45
148      Ala Gly Asp Glu Phe Glu Thr Arg Phe Arg Arg Thr Phe Ser Asp Leu

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Input Set : N:\paola\US09155327E.RAW
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149	50	55	60	
150	Ala Ala Gln Leu His Val Thr Pro Gly Ser Ala Gln Gln Arg Phe Thr			
151	65	70	75	80
152	Gln Val Ser Asp Glu Leu Phe Gln Gly Gly Pro Asn Trp Gly Arg Leu			
153	85	90	95	
154	Val Ala Phe Phe Val Phe Gly Ala Ala Leu Cys Ala Glu Ser Val Asn			
155	100	105	110	
156	Lys Glu Met Glu Pro Leu Val Gly Gln Val Gln Glu Trp Met Val Ala			
157	115	120	125	
158	Tyr Leu Glu Thr Arg Leu Ala Asp Trp Ile His Ser Gly Gly Trp			
159	130	135	140	
160	Ala Glu Phe Thr Ala Leu Tyr Gly Asp Gly Ala Leu Glu Glu Ala Arg			
161	145	150	155	160
162	Arg Leu Arg Glu Gly Asn Trp Ala Ser Val Arg Thr Val Leu Thr Gly			
163	165	170	175	
164	Ala Val Ala Leu Gly Ala Leu Val Thr Val Gly Ala Phe Phe Ala Ser			
165	180	185	190	
166	Lys			
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169	<211> LENGTH: 582			
170	<212> TYPE: DNA			
171	<213> ORGANISM: Mouse			
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173	<221> NAME/KEY: CDS			
174	<222> LOCATION: (1)..(579)			
175	<400> SEQUENCE: 8			
176	atg gcg acc cca gcc tca acc cca gac aca cgg gct cta gtg gct gac	48		
177	Met Ala Thr Pro Ala Ser Thr Pro Asp Thr Arg Ala Leu Val Ala Asp			
178	1	5	10	15
179	ttt gta ggc tat agg ctg agg cag aag ggt tat gtc tgt gga gct ggc	96		
180	Phe Val Gly Tyr Arg Leu Arg Gln Lys Gly Tyr Val Cys Gly Ala Gly			
181	20	25	30	
182	cct ggg gaa ggc cca gcc gcc gac ccg ctg cac caa gcc atg cgg gct	144		
183	Pro Gly Glu Gly Pro Ala Ala Asp Pro Leu His Gln Ala Met Arg Ala			
184	35	40	45	
185	gct gga gac gag ttt gag acc cgt ttc cgc cgc acc ttc tct gac ctg	192		
186	Ala Gly Asp Glu Phe Glu Thr Arg Phe Arg Arg Thr Phe Ser Asp Leu			
187	50	55	60	
188	gcc gct cag cta cac gtg acc cca ggc tca gcc cag caa cgc ttc acc	240		
189	Ala Ala Gln Leu His Val Thr Pro Gly Ser Ala Gln Gln Arg Phe Thr			
190	65	70	75	80
191	cag gtt tcc gac gaa ctt ttc caa ggg ggc cct aac tgg ggc cgt ctt	288		
192	Gln Val Ser Asp Glu Leu Phe Gln Gly Gly Pro Asn Trp Gly Arg Leu			
193	85	90	95	
194	gtg gca ttc ttt gtc ttt ggg gct gcc ctg tgt gct gag agt gtc aac	336		
195	Val Ala Phe Phe Val Phe Gly Ala Ala Leu Cys Ala Glu Ser Val Asn			
196	100	105	110	
197	aaa gaa atg gag cct ttg gtg gga caa gtg cag gat tgg atg gtg gcc	384		
198	Lys Glu Met Glu Pro Leu Val Gly Gln Val Gln Asp Trp Met Val Ala			

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```

199          115          120          125
200  tac ctg gag aca cgt ctg gct gac tgg atc cac agc agt ggc ggc tgg 432
201  Tyr Leu Glu Thr Arg Leu Ala Asp Trp Ile His Ser Ser Gly Gly Trp
202          130          135          140
203  gcg gag ttc aca gct cta tac ggg gac ggg gcc ctg gag gag gca cgg 480
204  Ala Glu Phe Thr Ala Leu Tyr Gly Asp Gly Ala Leu Glu Glu Ala Arg
205  145          150          155          160
206  cgt ctg cgg gag ggg aac tgg gca tca gtg agg aca gtg ctg acg ggg 528
207  Arg Leu Arg Glu Gly Asn Trp Ala Ser Val Arg Thr Val Leu Thr Gly
208          165          170          175
209  gcc gtg gca ctg ggg gcc ctg gta act gta ggg gcc ttt ttt gct agc 576
210  Ala Val Ala Leu Gly Ala Leu Val Thr Val Gly Ala Phe Phe Ala Ser
211          180          185          190          582
212  aag tga
213  Lys
215 <210> SEQ ID NO: 9
216 <211> LENGTH: 193
217 <212> TYPE: PRT
218 <213> ORGANISM: Mouse
219 <400> SEQUENCE: 9
220  Met Ala Thr Pro Ala Ser Thr Pro Asp Thr Arg Ala Leu Val Ala Asp
221  1          5          10          15
222  Phe Val Gly Tyr Arg Leu Arg Gln Lys Gly Tyr Val Cys Gly Ala Gly
223          20          25          30
224  Pro Gly Glu Gly Pro Ala Ala Asp Pro Leu His Gln Ala Met Arg Ala
225          35          40          45
226  Ala Gly Asp Glu Phe Glu Thr Arg Phe Arg Arg Thr Phe Ser Asp Leu
227          50          55          60
228  Ala Ala Gln Leu His Val Thr Pro Gly Ser Ala Gln Gln Arg Phe Thr
229          65          70          75          80
230  Gln Val Ser Asp Glu Leu Phe Gln Gly Gly Pro Asn Trp Gly Arg Leu
231          85          90          95
232  Val Ala Phe Phe Val Phe Gly Ala Ala Leu Cys Ala Glu Ser Val Asn
233          100          105          110
234  Lys Glu Met Glu Pro Leu Val Gly Gln Val Gln Asp Trp Met Val Ala
235          115          120          125
236  Tyr Leu Glu Thr Arg Leu Ala Asp Trp Ile His Ser Ser Gly Gly Trp
237          130          135          140
238  Ala Glu Phe Thr Ala Leu Tyr Gly Asp Gly Ala Leu Glu Glu Ala Arg
239          145          150          155          160
240  Arg Leu Arg Glu Gly Asn Trp Ala Ser Val Arg Thr Val Leu Thr Gly
241          165          170          175
242  Ala Val Ala Leu Gly Ala Leu Val Thr Val Gly Ala Phe Phe Ala Ser
243          180          185          190
244  Lys

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/155,327E

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Output Set: N:\CRF3\06252002\I155327E.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 16,19,22,25
Seq#:2; Xaa Pos. 5
Seq#:3; N Pos. 14,17,20
Seq#:4; Xaa Pos. 4,5

VERIFICATION SUMMARY

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Input Set : N:\paola\US09155327E.RAW

Output Set: N:\CRF3\06252002\I155327E.raw

L:5 M:270 C: Current Application Number differs, Wrong Format
L:33 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0